Approved For Release 2001/04/27 CIA-RDP79T01019A000200090001-9

CIA/RR OB 64-13 April 1964

(48°27'H-52°51'E)

L. CLiente

A. Climatic Surgery

The annual temperature-precipitation regime of Deepropetrovsk is roughly amalogous to that of the Great Flains Region of the United States in southwestern Bouth Dakota and northwestern Rebrusks. From the point of view of good weather for construction, however, Deepropetrovsk probably has a more favorable climate because reinfall is more evenly distributed throughout the year.

Surface air temperatures in winter, on the everage, are 6 to 11 Fahrenbeit degrees below freezing, with mean daily minimum temperatures between
21° and 26°F and mean daily maximum temperatures between 27° and 29°F (see
Table 1). Precipitation is howevest in June (5.1 inches) and lightest in
September (0.9 inches) (see Table 2). Almost balf of the annual procipitation falls between May and August. The frequency of precipitation,
including even a trace, varies from 9 to 12 days a month except from July
through September, when it drops to 5 to 7 days a month. Bainfall in
summer is frequently in the form of showers. Showfall occurs from Cotober
through April, with a maximum frequency (9 to 10 days a month) in December
through February. Show accounts for about 21 percent of the total annual
precipitation. The show cover is generally less than 6 inches, very
unstable, and thaws many times during the winter.

In winter the average depth of frozen ground is 2.6 feet, but occasionally the ground may freeze to a depth of 5 or 6 feet.

B. Climatic Tables

Table 1
Temperature

			Degrace Fahrenbeit		
	Averse	Average Daily Vasimum	Average Laily Minispe		
Jennery.	21.70	270	150		
February	22.80	590	200		
Morch	%.9 °	570	590		
April	h7.30	550	520		
lacy .	61.29	699	510		
June	66. P	750	590		
July	72.00	800	(হাত		
August	69.80	Lib	6 00		
September	60.1°	600	500		
October	48,10	550	\$ 60		
November	35.10	370	259		
[acomber	26.10	≈ ∂•	530		

Absolute minimum temperature: -36.4° . Absolute maximum temperature: 100.4° .

Period when the average temperature is less than 320:

25 November through li Barch.



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Table 2

	Precipitation (inches)	Average Musber of Deys with Thunderstorms	Average hander of Tays with thoughli		
January'	1.4	9	10		
February	1.2	0	9		
March	1.3	٥			
Apr 11	1.5	less than 0.5	1		
Ley	2.0	ių	O		
June	5.1	б	0		
Auly	1.7	5	Ò		
August	1.7	5	O		
September	0.9	1	o		
October	1.2	less than 0.5	less than 0.5		
Hovember	1.5	less than 0.5			
Decomber	1.7	Q	9		

Annual precipitation: 19.7 inches.
Number of days per year with precipitation greater than 0.00% inches: 125.
Maximum recorded precipitation in 2% hours: 2.6% inches.
Average master of days per year with snow cover: 79.
Average date of first snow cover: 26 %ovember.
Average date of disappearance of snow cover: 21 Norch.
Average maximum depth of snow cover (besed on 10-day period of greatest depth): 6.3 inches.

C. Reliability of Climatic Data

late on everage delly sections and minimum temperatures and on everage masher of days with thunderstorms and enquiall are from a 1948 USAF publication and are based upon limited pre-World War II Russian date that in some cases may have spanned as few as 5 years. All other date are from recent Soviet sources that appear to be based on longer periods, although the exact number of years is not specified. These variations in source material undoubtedly influence the failure of the average temperatures given in the table to correspond with the median between the average daily maximum and the average daily minimum temperatures.

2. Soils not Leadforms

Soils around Despropetrovek are chernoxess, which consist of an upper layer of silt from 6 to 50 feet thick and a lower layer of various types of clays and sands that may range from a negligible thickness up to 150 feet. Thus, bedrock lies from 6 to 200 feet below the surface. North of Despropetrovsk it consists of sandstone and shale interbedded with sand and clay, and to the south, of linestone, sandstone, conglossrate, and shale interbedded with sand and clay. Throughout the entire area, red granite lies beneath these varying sedimentary layers. East of Despropetrovsk, around Desprodzhershinek, the sedimentary layers are absent and granite is the immediate bedrock. The outcrops of granite in the bed of the Despr Eiver cause rapids.

The highest point in inepropetrovak, on the high right bank of the lampr, is about 425 feet above the river. On the right bank a series of five large terraces rises from the river to the higher elevations of the rolling plain. These terraces are greatly eroded by ravines, some of them large. The left bank is lower and lacks terraces.

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